

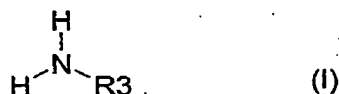
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Group: 1621

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Amendments to the Claims

1. (Previously Presented) A process for the preparation of a primary amine of formula (I):



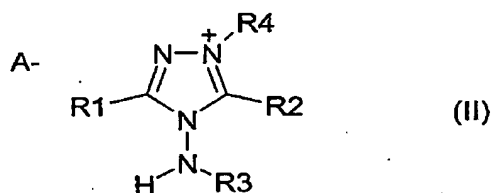
wherein

R³ is

- a linear or branched alkyl group including from 1 to 6 carbon atoms optionally substituted by one or more hydroxyl groups, amino groups, alkoxy groups including from 1 to 6 carbon atoms or aryl groups including from 6 to 10 carbon atoms, the aryl groups optionally being substituted by one or more linear or branched alkyl groups including from 1 to 6 carbon atoms or by one or more alkoxy groups including from 1 to 6 carbon atoms or by one or more phenyl groups,
- a cycloalkyl group including from 5 to 7 carbon atoms optionally substituted by one or more linear or branched alkyl groups including from 1 to 6 carbon atoms or by one or more alkoxy groups including from 1 to 6 carbon atoms,
- an aralkyl group including from 7 to 16 carbon atoms optionally substituted by one or more linear or branched alkyl groups including from 1 to 6 carbon atoms, by one or more alkoxy groups including from 1 to 6 carbon atoms or by one or more phenyl groups,

comprising the step of reacting a triazolium salt of formula (II):

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wherein

R1 and R2, are identical or different, and are

- hydrogen,
- a linear or branched alkyl group including from 1 to 6 carbon atoms optionally substituted by one or more alkoxy groups including from 1 to 6 carbon atoms, - (OCH₂CH₂O)_nR''' groups wherein n is an integer ranging from 1 to 4 and R''' is a linear or branched alkyl group including from 1 to 4 carbon atoms, -O-aryl groups including from 6 to 10 carbon atoms optionally substituted by one or more alkoxy groups including from 1 to 6 carbon atoms, linear or branched alkyl groups including from 1 to 6 carbon atoms or phenyl groups, or -O-aralkyl groups including from 7 to 16 carbon atoms optionally substituted by one or more alkoxy groups including from 1 to 6 carbon atoms, linear or branched alkyl groups including from 1 to 6 carbon atoms or phenyl groups;
- an aralkyl group including from 7 to 16 carbon atoms optionally substituted by one or more alkoxy groups including from 1 to 6 carbon atoms, linear or branched alkyl groups including from 1 to 6 carbon atoms or phenyl groups;
- an aryl group including from 6 to 10 carbon atoms optionally substituted by one or more alkoxy groups including from 1 to 6 carbon atoms or linear or branched alkyl groups including from 1 to 6 carbon atoms or phenyl groups,

R4 is

- a linear or branched alkyl group including from 1 to 6 carbon atoms optionally substituted by a -COOH radical or a -COOR''' group in which R''' represents a linear or branched alkyl radical including from 1 to 4 carbon atoms,

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- an aralkyl group including from 7 to 16 carbon atoms optionally substituted by one or more alkoxy groups including from 1 to 6 carbon atoms, a linear or branched alkyl groups including from 1 to 6 carbon atoms, a -COOH radical or a -COOR''' group wherein R''' represents a linear or branched alkyl radical including from 1 to 4 carbon atoms,
- a residue of an organic polymer functionalized by an alkylating group,

A is

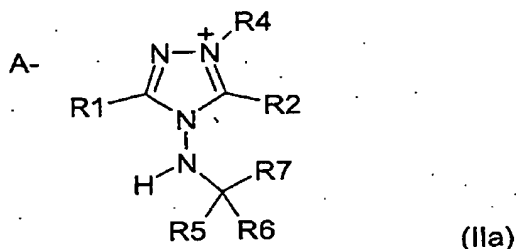
- a halogen,
- an alkylsulphonate group including from 1 to 6 carbon atoms optionally substituted by one or more halogen groups,
- an arylsulphonate group including from 6 to 10 carbon atoms optionally substituted by one or more halogen groups or linear or branched alkyl groups including from 1 to 4 carbon atoms,
- an alkyl sulphate group including from 1 to 6 carbon atoms,
- a hydrogen sulphate group,
- a hemisulphate group,
- a perchlorate group, or
- a hydroxide group,

with a hydride, to obtain the amine of formula (I) .

2. (Previously Presented) The process according to Claim 1, wherein the R₃ group comprises an asymmetric carbon α to the nitrogen.

3. (Previously Presented) The process according to Claim 1, wherein the triazolium salt of formula (II) is of the formula (IIa):

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wherein

R5 is

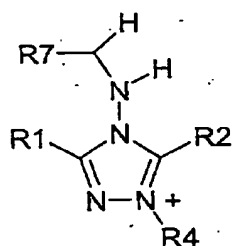
- a hydrogen,
- a linear or branched alkyl group including from 1 to 6 carbon atoms optionally substituted by one or more alkoxy groups including from 1 to 6 carbon atoms, hydroxyl groups or amino groups,
- a cycloalkyl group including from 3 to 7 carbon atoms optionally substituted by one or more alkoxy groups including from 1 to 6 carbon atoms or linear or branched alkyl groups including from 1 to 6 carbon atoms,
- an aryl group including from 6 to 10 carbon atoms optionally substituted by one or more alkoxy groups including from 1 to 6 carbon atoms or linear or branched alkyl groups including from 1 to 6 carbon atoms or phenyl groups,
- an aralkyl group including from 7 to 16 carbon atoms optionally substituted by one or more alkoxy groups including from 1 to 6 carbon atoms, linear or branched alkyl groups including from 1 to 6 carbon atoms or phenyl groups,

R6 is

- a linear or branched alkyl group including from 1 to 6 carbon atoms optionally substituted by one or more alkoxy groups including from 1 to 6 carbon atoms, hydroxyl groups or amino groups,
- a cycloalkyl group including from 3 to 7 carbon atoms optionally substituted by one or more alkoxy groups including from 1 to 6 carbon atoms or linear or branched alkyl groups including from 1 to 6 carbon atoms,

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- an aryl group including from 6 to 10 carbon atoms optionally substituted by one or more alkoxy groups including from 1 to 6 carbon atoms or linear or branched alkyl groups including from 1 to 6 carbon atoms or phenyl groups,
- an aralkyl group including from 7 to 16 carbon atoms optionally substituted by one or more alkoxy groups including from 1 to 6 carbon atoms, linear or branched alkyl groups including from 1 to 6 carbon atoms or phenyl groups,
- an aminotriazolium group of formula



A-

(IIb)

wherein

R7 is

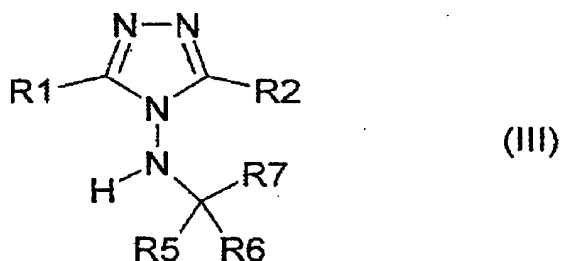
- a hydrogen,
- a linear or branched alkyl group including from 1 to 6 carbon atoms optionally substituted by one or more alkoxy groups including from 1 to 6 carbon atoms, hydroxyl groups or amino groups,
- a cycloalkyl group including from 3 to 7 carbon atoms optionally substituted by one or more alkoxy groups including from 1 to 6 carbon atoms or linear or branched alkyl groups including from 1 to 6 carbon atoms,
- an aryl group including from 6 to 10 carbon atoms optionally substituted by one or more alkoxy groups including from 1 to 6 carbon atoms or linear or branched alkyl groups including from 1 to 6 carbon atoms or phenyl groups,
- an aralkyl group including from 7 to 16 carbon atoms optionally substituted by one or more alkoxy groups including from 1 to 6 carbon atoms or linear or branched alkyl groups including from 1 to 6 carbon atoms or phenyl groups, or

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R5 and R6 can form, together with the carbon atom to which they are bonded, a ring comprising 5 to 7 carbon atoms optionally substituted by one or more alkoxy groups including from 1 to 6 carbon atoms or linear or branched alkyl groups including from 1 to 6 carbon atoms,

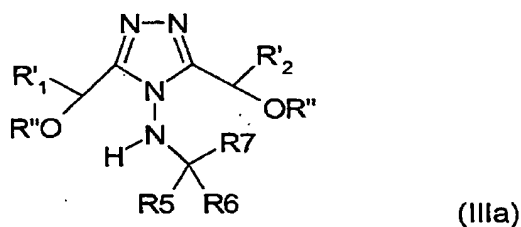
with the proviso that the carbon carrying the R5, R6 and R7 radicals must be asymmetric.

4. (Previously Presented) The process according to Claim 3, wherein the compound of formula (IIa) is prepared by reaction of a compound of formula (III):



with an agent for the quaternization of a nitrogen, to produce the compound of formula (IIa).

5. (Previously Presented) The process according to Claim 3, wherein the compound of formula (IIa) is prepared by reaction of a compound of formula (IIIa):



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wherein

R'1 and R'2 are

- a linear or branched alkyl group including from 1 to 6 carbon atoms optionally substituted by one or more alkoxy groups including from 1 to 6 carbon atoms,
- an aryl group including from 6 to 10 carbon atoms optionally substituted by one or more alkoxy groups including from 1 to 6 carbon atoms or linear or branched alkyl groups including from 1 to 6 carbon atoms or phenyl groups, or
- an aralkyl group including from 7 to 16 carbon atoms optionally substituted by one or more alkoxy groups including from 1 to 6 carbon atoms or linear or branched alkyl groups including from 1 to 6 carbon atoms or phenyl groups, and

R'' represents

- hydrogen,
- a linear or branched alkyl group including from 1 to 6 carbon atoms,
- an aryl group including from 6 to 10 carbon atoms optionally substituted by one or more alkoxy groups including from 1 to 6 carbon atoms or linear or branched alkyl groups including from 1 to 6 carbon atoms or phenyl groups,
- an aralkyl group including from 7 to 16 carbon atoms optionally substituted by one or more alkoxy groups including from 1 to 6 carbon atoms or linear or branched alkyl groups including from 1 to 6 carbon atoms or phenyl groups,
- a $-(\text{CH}_2\text{CH}_2\text{O})_n\text{R}'''$ group in which n represents an integer ranging from 1 to 4 and R''' is a linear or branched alkyl group including from 1 to 4 carbon atoms, with an agent for the quaternization of a nitrogen, to produce the compound of formula (IIa).

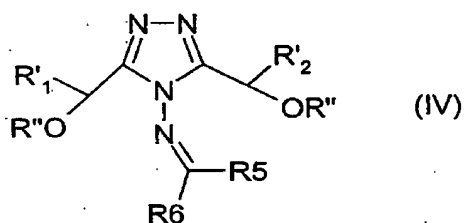
6. (Previously Presented) The process according to Claim 5, wherein the compound of formula (IIIa) is prepared by reaction of an organometallic compound of formula

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R7-M

wherein M is an MgX or CeX_2 group in which X represents a halogen atom or M represents a metal,

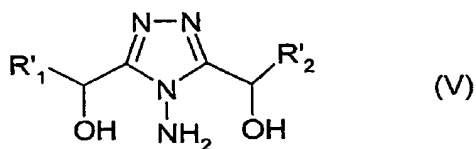
with a compound of formula (IV)



with the proviso that, when R'' is a hydrogen, at least one of R5 and R6 is an aryl group optionally substituted by one or more alkoxy groups including from 1 to 6 carbon atoms or linear or branched alkyl groups including from 1 to 6 carbon atoms or phenyl groups,

to produce the compound of formula (IIIa).

7. (Previously Presented) The process according to Claim 6, wherein the compound of formula (IV) is prepared by etherification and reaction of a compound of formula (V):



with a compound of formula

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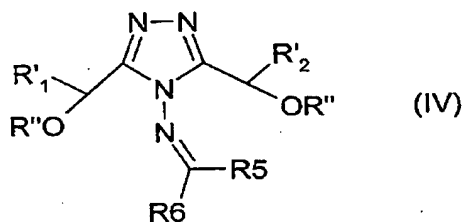


to produce the compound of formula (IV).

8. (Previously Presented) The process according to Claim 7, wherein the etherification takes place before the reaction of the compound of formula (V) with the compound of formula $\text{O}=\text{CR}_5\text{R}_6$.

9. (Previously Presented) The process according to Claim 7, wherein the etherification takes place after the reaction of the compound of formula (V) with the compound of formula $\text{O}=\text{CR}_5\text{R}_6$, with the proviso that at least one of R_5 and R_6 represents an aryl group optionally substituted by one or more alkoxy groups including from 1 to 6 carbon atoms or linear or branched alkyl groups including from 1 to 6 carbon atoms or phenyl groups.

10. (Previously Presented) The process according to Claim 5, wherein the compound of formula (IIIa) is prepared by reduction by the action of a metal hydride on a compound of formula (IV)



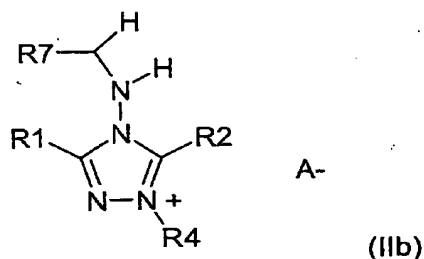
or by hydrogenation of the compound of formula (IV), with the proviso that R_5 cannot be hydrogen.

11. (Currently Amended) An intermediate for preparing an amine of formula $\text{H}_2\text{N}-\text{CHR}_6\text{R}_7$, wherein

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R6 is -

- a linear or branched alkyl group including from 1 to 6 carbon atoms optionally substituted by one or more alkoxy groups including from 1 to 6 carbon atoms, hydroxyl groups or amino groups,
- a cycloalkyl group including from 3 to 7 carbon atoms optionally substituted by one or more alkoxy groups including from 1 to 6 carbon atoms or linear or branched alkyl groups including from 1 to 6 carbon atoms,
- an aryl group including from 6 to 10 carbon atoms optionally substituted by one or more alkoxy groups including from 1 to 6 carbon atoms or linear or branched alkyl groups including from 1 to 6 carbon atoms or phenyl groups,
- an aralkyl group including from 7 to 16 carbon atoms optionally substituted by one or more alkoxy groups including from 1 to 6 carbon atoms, linear or branched alkyl groups including from 1 to 6 carbon atoms or phenyl groups,
- an aminotriazolium group of formula



~~wherein~~ wherein R1 and R2, are identical or different, and are

- hydrogen,
- a linear or branched alkyl group including from 1 to 6 carbon atoms optionally substituted by one or more alkoxy groups including from 1 to 6 carbon atoms, -
 $(\text{OCH}_2\text{CH}_2\text{O})_n\text{R}'''$ groups wherein n is an integer ranging from 1 to 4 and R''' is a linear or branched alkyl group including from 1 to 4 carbon atoms, -O-aryl groups including from 6 to 10 carbon atoms optionally substituted by one or more alkoxy groups including from 1 to 6 carbon atoms, linear or branched alkyl groups including from 1 to 6 carbon atoms or phenyl groups, or -O-aralkyl groups including from 7 to

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16 carbon atoms optionally substituted by one or more alkoxy groups including from 1 to 6 carbon atoms, linear or branched alkyl groups including from 1 to 6 carbon atoms or phenyl groups;

- an aralkyl group including from 7 to 16 carbon atoms optionally substituted by one or more alkoxy groups including from 1 to 6 carbon atoms, linear or branched alkyl groups including from 1 to 6 carbon atoms or phenyl groups;
- an aryl group including from 6 to 10 carbon atoms optionally substituted by one or more alkoxy groups including from 1 to 6 carbon atoms or linear or branched alkyl groups including from 1 to 6 carbon atoms or phenyl groups,

R4 is

- a linear or branched alkyl group including from 1 to 6 carbon atoms optionally substituted by a -COOH radical or a -COOR''' group in which R''' represents a linear or branched alkyl radical including from 1 to 4 carbon atoms,
- an aralkyl group including from 7 to 16 carbon atoms optionally substituted by one or more alkoxy groups including from 1 to 6 carbon atoms, a linear or branched alkyl groups including from 1 to 6 carbon atoms, a -COOH radical or a -COOR''' group wherein R''' represents a linear or branched alkyl radical including from 1 to 4 carbon atoms, or
- a residue of an organic polymer functionalized by an alkylating group, and

A is

- a halogen,
- an alkylsulphonate group including from 1 to 6 carbon atoms optionally substituted by one or more halogen groups,
- an arylsulphonate group including from 6 to 10 carbon atoms optionally substituted by one or more halogen groups or linear or branched alkyl groups including from 1 to 4 carbon atoms,
- an alkyl sulphate group including from 1 to 6 carbon atoms,
- a hydrogen sulphate group,
- a hemisulphate group,

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- a perchlorate group, or
- a hydroxide group,

R7 is

- a hydrogen,
- a linear or branched alkyl group including from 1 to 6 carbon atoms optionally substituted by one or more alkoxy groups including from 1 to 6 carbon atoms, hydroxyl groups or amino groups,
- a cycloalkyl group including from 3 to 7 carbon atoms optionally substituted by one or more alkoxy groups including from 1 to 6 carbon atoms or linear or branched alkyl groups including from 1 to 6 carbon atoms,
- an aryl group including from 6 to 10 carbon atoms optionally substituted by one or more alkoxy groups including from 1 to 6 carbon atoms or linear or branched alkyl groups including from 1 to 6 carbon atoms or phenyl groups,
- an aralkyl group including from 7 to 16 carbon atoms optionally substituted by one or more alkoxy groups including from 1 to 6 carbon atoms or linear or branched alkyl groups including from 1 to 6 carbon atoms or phenyl groups,

wherein the intermediate is selected from the group consisting of:

- 4-[(R)-1-Ethyl-2,2-dimethoxyethylamino]-(S,S)-3,5-bis(1-methoxyethyl)-1,2,4-triazole
- 4-[(S)-1-Ethyl-2,2-dimethoxyethylamino]-(S,S)-3,5-bis(1-ethoxyethyl)-1,2,4-triazole
- 4-[(R)-1-Ethyl-2,2-dimethoxyethylamino]-(S,S)-3,5-bis(1-ethoxyethyl)-1,2,4-triazole
- 4-(1-Phenyl-2,2-dimethoxyethylamino)-(S,S)-3,5-bis(1-methoxyethyl)-1,2,4-triazole
- 4-(1-Ethyl-2,2-dimethoxyethylamino)-(S,S)-3,5-bis(1-(2-methoxyethyl)ethyl)-1,2,4-triazole
- 4-(1-Ethylbutylamino)-(S,S)-3,5-bis(1-methoxyethyl)-1,2,4-triazole
- 4-(1-Ethylisobutylamino)-(S,S)-3,5-bis(1-methoxyethyl)-1,2,4-triazole

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- 4-(1-Phenylpropylamino)-(S,S)-3,5-bis(1-methoxyethyl)-1,2,4-triazole
- 4-(1-Phenylethylamino)-(S,S)-3,5-bis(1-methoxyethyl)-1,2,4-triazole, and
- (Hexyl-3,4-diamino)-4,4'-bis[(S,S)-3,5-bis(1-methoxyethyl)-1,2,4-triazole].

12. (Currently Amended) An intermediate for preparing an amine of formula $H_2N-CR_5R_6R_7$ wherein

R5 is

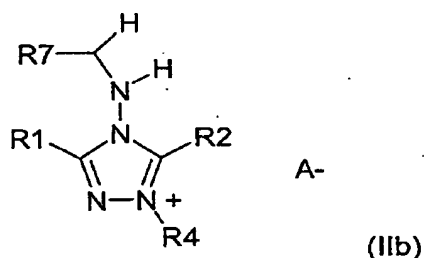
- a hydrogen,
- a linear or branched alkyl group including from 1 to 6 carbon atoms optionally substituted by one or more alkoxy groups including from 1 to 6 carbon atoms, hydroxyl groups or amino groups,
- a cycloalkyl group including from 3 to 7 carbon atoms optionally substituted by one or more alkoxy groups including from 1 to 6 carbon atoms or linear or branched alkyl groups including from 1 to 6 carbon atoms,
- an aryl group including from 6 to 10 carbon atoms optionally substituted by one or more alkoxy groups including from 1 to 6 carbon atoms or linear or branched alkyl groups including from 1 to 6 carbon atoms or phenyl groups,
- an aralkyl group including from 7 to 16 carbon atoms optionally substituted by one or more alkoxy groups including from 1 to 6 carbon atoms, linear or branched alkyl groups including from 1 to 6 carbon atoms or phenyl groups,

R6 is

- a linear or branched alkyl group including from 1 to 6 carbon atoms optionally substituted by one or more alkoxy groups including from 1 to 6 carbon atoms, hydroxyl groups or amino groups,
- a cycloalkyl group including from 3 to 7 carbon atoms optionally substituted by one or more alkoxy groups including from 1 to 6 carbon atoms or linear or branched alkyl groups including from 1 to 6 carbon atoms,
- an aryl group including from 6 to 10 carbon atoms optionally substituted by one or more alkoxy groups including from 1 to 6 carbon atoms or linear or branched alkyl groups including from 1 to 6 carbon atoms or phenyl groups,

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- an aralkyl group including from 7 to 16 carbon atoms optionally substituted by one or more alkoxy groups including from 1 to 6 carbon atoms, linear or branched alkyl groups including from 1 to 6 carbon atoms or phenyl groups,
- an aminotriazolium group of formula



~~wherein~~ wherein R1 and R2, are identical or different, and are

- hydrogen,
- a linear or branched alkyl group including from 1 to 6 carbon atoms optionally substituted by one or more alkoxy groups including from 1 to 6 carbon atoms, - (OCH₂CH₂O)_nR''' groups wherein n is an integer ranging from 1 to 4 and R''' is a linear or branched alkyl group including from 1 to 4 carbon atoms, -O-aryl groups including from 6 to 10 carbon atoms optionally substituted by one or more alkoxy groups including from 1 to 6 carbon atoms, linear or branched alkyl groups including from 1 to 6 carbon atoms or phenyl groups, or -O-aralkyl groups including from 7 to 16 carbon atoms optionally substituted by one or more alkoxy groups including from 1 to 6 carbon atoms, linear or branched alkyl groups including from 1 to 6 carbon atoms or phenyl groups;
- an aralkyl group including from 7 to 16 carbon atoms optionally substituted by one or more alkoxy groups including from 1 to 6 carbon atoms, linear or branched alkyl groups including from 1 to 6 carbon atoms or phenyl groups;
- an aryl group including from 6 to 10 carbon atoms optionally substituted by one or more alkoxy groups including from 1 to 6 carbon atoms or linear or branched alkyl groups including from 1 to 6 carbon atoms or phenyl groups,

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R4 is

- a linear or branched alkyl group including from 1 to 6 carbon atoms optionally substituted by a -COOH radical or a -COOR''' group in which R''' represents a linear or branched alkyl radical including from 1 to 4 carbon atoms,
- an aralkyl group including from 7 to 16 carbon atoms optionally substituted by one or more alkoxy groups including from 1 to 6 carbon atoms, a linear or branched alkyl groups including from 1 to 6 carbon atoms, a -COOH radical or a -COOR''' group wherein R''' represents a linear or branched alkyl radical including from 1 to 4 carbon atoms, or
- a residue of an organic polymer functionalized by an alkylating group, and

A is

- a halogen,
- an alkylsulphonate group including from 1 to 6 carbon atoms optionally substituted by one or more halogen groups,
- an arylsulphonate group including from 6 to 10 carbon atoms optionally substituted by one or more halogen groups or linear or branched alkyl groups including from 1 to 4 carbon atoms,
- an alkyl sulphate group including from 1 to 6 carbon atoms,
- a hydrogen sulphate group,
- a hemisulphate group,
- a perchlorate group, or
- a hydroxide group,

R7 is

- a hydrogen,
- a linear or branched alkyl group including from 1 to 6 carbon atoms optionally substituted by one or more alkoxy groups including from 1 to 6 carbon atoms, hydroxyl groups or amino groups,

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- a cycloalkyl group including from 3 to 7 carbon atoms optionally substituted by one or more alkoxy groups including from 1 to 6 carbon atoms or linear or branched alkyl groups including from 1 to 6 carbon atoms,
- an aryl group including from 6 to 10 carbon atoms optionally substituted by one or more alkoxy groups including from 1 to 6 carbon atoms or linear or branched alkyl groups including from 1 to 6 carbon atoms or phenyl groups,
- an aralkyl group including from 7 to 16 carbon atoms optionally substituted by one or more alkoxy groups including from 1 to 6 carbon atoms or linear or branched alkyl groups including from 1 to 6 carbon atoms or phenyl groups, or

R5 and R6 can form, together with the carbon atom to which they are bonded, a ring comprising 5 to 7 carbon atoms optionally substituted by one or more alkoxy groups including from 1 to 6 carbon atoms or linear or branched alkyl groups including from 1 to 6 carbon atoms,

wherein the intermediate is selected from the group consisting of:

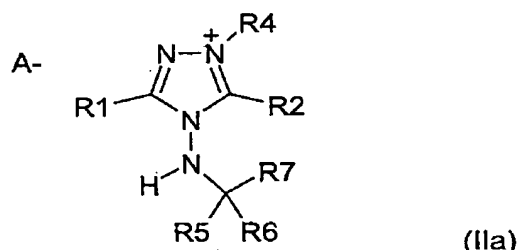
- N-[(S,S)-3,5-Bis(1-methoxyethyl)-1,2,4-triazol-4-yl]-2,2-dimethoxyethylimine
 - N-[(S,S)-3,5-Bis(1-methoxyethyl)-1,2,4-triazol-4-yl]butylimine
 - N-[(S,S)-3,5-Bis(1-methoxyethyl)-1,2,4-triazol-4-yl]isobutylimine
 - N-[(S,S)-3,5-Bis(1-methoxyethyl)-1,2,4-triazol-4-yl]-1-(ethoxycarbonyl)methylimine
 - N-[(S,S)-3,5-Bis(1-methoxyethyl)-1,2,4-triazol-4-yl]-1-phenylethylimine
 - N-[(S,S)-3,5-Bis(1-methoxyethyl)-1,2,4-triazol-4-yl]-1-methyl-2,2-dimethoxyethylimine
 - Bis[N-[(S,S)-3,5-bis(1-methoxyethyl)-1,2,4-triazol-4-yl]methylimine]
 - N-[(S,S)-3,5-Bis(1-ethoxyethyl)-1,2,4-triazol-4-yl]-2,2-dimethoxyethylimine,
- and
- N-[(S,S)-3,5-Bis(1-(2-methoxyethoxy)ethyl)-1,2,4-triazol-4-yl]-2,2-dimethoxyethylimine.

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13. (Previously Presented) The process according to Claim 4, wherein the stereoisomers of formula (III) are separated by high performance liquid chromatography.

14. (Previously Presented) The process according to Claim 3, wherein the diastereoisomers of formula (IIa) are separated by crystallization.

15. (Currently Amended) An enantiomerically pure diastereoisomer of a compound of formula (IIa)



wherein

R1 and R2, are identical or different, and are

- hydrogen,

- a linear or branched alkyl group including from 1 to 6 carbon atoms optionally substituted by one or more alkoxy groups including from 1 to 6 carbon atoms, - (OCH₂CH₂O)_nR''' groups wherein n is an integer ranging from 1 to 4 and R''' is a linear or branched alkyl group including from 1 to 4 carbon atoms, -O-aryl groups including from 6 to 10 carbon atoms optionally substituted by one or more alkoxy groups including from 1 to 6 carbon atoms, linear or branched alkyl groups including from 1 to 6 carbon atoms or phenyl groups, or -O-aralkyl groups including from 7 to 16 carbon atoms optionally substituted by one or more alkoxy groups including from 1 to 6 carbon atoms, linear or branched alkyl groups including from 1 to 6 carbon atoms or phenyl groups;

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- an aralkyl group including from 7 to 16 carbon atoms optionally substituted by one or more alkoxy groups including from 1 to 6 carbon atoms, linear or branched alkyl groups including from 1 to 6 carbon atoms or phenyl groups;

- an aryl group including from 6 to 10 carbon atoms optionally substituted by one or more alkoxy groups including from 1 to 6 carbon atoms or linear or branched alkyl groups including from 1 to 6 carbon atoms or phenyl groups.

R₄ is

- a linear or branched alkyl group including from 1 to 6 carbon atoms optionally substituted by a -COOH radical or a -COOR''' group in which R''' represents a linear or branched alkyl radical including from 1 to 4 carbon atoms.

- an aralkyl group including from 7 to 16 carbon atoms optionally substituted by one or more alkoxy groups including from 1 to 6 carbon atoms, a linear or branched alkyl groups including from 1 to 6 carbon atoms, a -COOH radical or a -COOR''' group wherein R''' represents a linear or branched alkyl radical including from 1 to 4 carbon atoms.

- a residue of an organic polymer functionalized by an alkylating group.

A is

- a halogen.

- an alkylsulphonate group including from 1 to 6 carbon atoms optionally substituted by one or more halogen groups.

- an arylsulphonate group including from 6 to 10 carbon atoms optionally substituted by one or more halogen groups or linear or branched alkyl groups including from 1 to 4 carbon atoms.

- an alkyl sulphate group including from 1 to 6 carbon atoms.

- a hydrogen sulphate group.

- a hemisulphate group.

- a perchlorate group, or

- a hydroxide group.

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R5 is

- a hydrogen.
- a linear or branched alkyl group including from 1 to 6 carbon atoms optionally substituted by one or more alkoxy groups including from 1 to 6 carbon atoms, hydroxyl groups or amino groups.
- a cycloalkyl group including from 3 to 7 carbon atoms optionally substituted by one or more alkoxy groups including from 1 to 6 carbon atoms or linear or branched alkyl groups including from 1 to 6 carbon atoms.
- an aryl group including from 6 to 10 carbon atoms optionally substituted by one or more alkoxy groups including from 1 to 6 carbon atoms or linear or branched alkyl groups including from 1 to 6 carbon atoms or phenyl groups.
- an aralkyl group including from 7 to 16 carbon atoms optionally substituted by one or more alkoxy groups including from 1 to 6 carbon atoms, linear or branched alkyl groups including from 1 to 6 carbon atoms or phenyl groups.

R6 is

- a linear or branched alkyl group including from 1 to 6 carbon atoms optionally substituted by one or more alkoxy groups including from 1 to 6 carbon atoms, hydroxyl groups or amino groups.
- a cycloalkyl group including from 3 to 7 carbon atoms optionally substituted by one or more alkoxy groups including from 1 to 6 carbon atoms or linear or branched alkyl groups including from 1 to 6 carbon atoms.
- an aryl group including from 6 to 10 carbon atoms optionally substituted by one or more alkoxy groups including from 1 to 6 carbon atoms or linear or branched alkyl groups including from 1 to 6 carbon atoms or phenyl groups.
- an aralkyl group including from 7 to 16 carbon atoms optionally substituted by one or more alkoxy groups including from 1 to 6 carbon atoms, linear or branched alkyl groups including from 1 to 6 carbon atoms or phenyl groups.

R7 is

- a hydrogen.

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- a linear or branched alkyl group including from 1 to 6 carbon atoms optionally substituted by one or more alkoxy groups including from 1 to 6 carbon atoms, hydroxyl groups or amino groups.
- a cycloalkyl group including from 3 to 7 carbon atoms optionally substituted by one or more alkoxy groups including from 1 to 6 carbon atoms or linear or branched alkyl groups including from 1 to 6 carbon atoms.
- an aryl group including from 6 to 10 carbon atoms optionally substituted by one or more alkoxy groups including from 1 to 6 carbon atoms or linear or branched alkyl groups including from 1 to 6 carbon atoms or phenyl groups.
- an aralkyl group including from 7 to 16 carbon atoms optionally substituted by one or more alkoxy groups including from 1 to 6 carbon atoms or linear or branched alkyl groups including from 1 to 6 carbon atoms or phenyl groups, or

R5 and R6 can form, together with the carbon atom to which they are bonded, a ring comprising 5 to 7 carbon atoms optionally substituted by one or more alkoxy groups including from 1 to 6 carbon atoms or linear or branched alkyl groups including from 1 to 6 carbon atoms.

~~obtained according to the process of Claim 14.~~

16. (Previously Presented) The enantiomerically pure diastereoisomer of a compound of formula (IIa) according to Claim 15, wherein the compound of formula (IIa) is 1-benzyl-4-[(R)-1-phenyl-2,2-dimethoxyethylamino]-(S,S)-3,5-bis(1-methoxyethyl)-1,2,4-triazolium bromide.

17. (Previously Presented) The process according to Claim 1, further comprising the step of isolating the amine of formula (I).

18. (Previously Presented) The process according to Claim 4, wherein the compound of formula (IIa) is isolated.

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19. (Previously Presented) The process according to Claim 5, wherein the compound of formula (IIa) is isolated.
20. (Previously Presented) The process according to Claim 6, wherein M is Li, Cu or (1/2) Zn.
21. (Previously Presented) The process according to Claim 6, wherein the compound of formula (IIIa) is isolated.
22. (Previously Presented) The process according to Claim 7, wherein the compound of formula (IV) is isolated.
23. (Previously Presented) The process according to Claim 5, wherein the stereoisomers of formula (IIIa) are separated by high performance liquid chromatography.
24. (Previously Presented) The process according to Claim 13, wherein the high performance liquid chromatography is chiral high performance liquid chromatography.
25. (Previously Presented) The process according to Claim 23, wherein the high performance liquid chromatography is chiral high performance liquid chromatography.
26. (Previously Presented) The process according to Claim 5, wherein the diastereoisomers of formula (IIa) are separated by crystallization.
27. through 29. (Cancelled)

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